Appl. No. 10/822,995 Attorney Docket No.: 2001B127B/2 Amdt. dated November 11, 2005 Reply to Office Action of August 22, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions and listing of claims in this application.

Listing of Claims:

Claims 1-29. (Canceled)

30. (Currently Amended) A process for method of adding heat to a reactor system having an oxygenate to olefin reaction zone and a catalyst regeneration zone wherein catalyst is cycled from the reaction zone to the regeneration zone and from the regeneration zone to the reaction zone, the process method comprising:

fluidizing catalyst in the regeneration zone in the presence of an oxygen containing gas; heating the catalyst in said regeneration zone to a first temperature of at least about 225°C (437°F);

introducing a heating fuel into the regeneration zone wherein the heating fuel has about 500 wppm or less of sulfur and has about 200 wppm or less nitrogen and an autoignition temperature greater than the first temperature but no greater than about 482°C (900°F); imparting sufficient heat content within said regeneration zone to initiate and sustain ignition of said heating fuel to thereby provide a further heated catalyst; and providing the heated catalyst into the reaction zone.

- 31. (Original) The process of claim 30 which further comprises: contacting said catalyst with an oxygenate feedstock under conditions sufficient to convert said oxygenate to an olefin-rich product and said heating fuel has about 100 wppm or less of sulfur and has about 100 ppmw or less nitrogen.
- 32. (Original) The process of claim 30 wherein said heating fuel contains a total of no greater than 20 wppm of metal selected from the group consisting of nickel and vanadium.

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- 33. (Original) A process for initially increasing the temperature of a reactor system for making an olefin product from an oxygenate feedstock in the presence of an oxygenate to olefin molecular sieve catalyst which process comprises:
- a) contacting at least a portion of the catalyst with a regeneration medium in a regeneration zone;
- b) heating said regeneration zone to a first temperature of at least 225°C (437°F),
- c) feeding to said regeneration zone a heating fuel having an autoignition temperature less than the first temperature and containing less than 500 wppm sulfur and less than 200 wppm nitrogen, thereby causing the heating fuel to ignite and provide a heated catalyst; and
- d) circulating said heated catalyst to the reaction zone.
 - 34. (Original) The process of claim 33 which further comprises:
- a) additionally contacting the feedstock in a reaction zone with said oxygenate to olefin molecular sieve catalyst including said heated catalyst, under conditions effective to convert the feedstock into an olefin product stream.
- 35. (Original) The process of claim 33 wherein said heating fuel contains less than 100 ppm sulfur and less than 100 wppm nitrogen.